VIL'NITS'KIY, M.B.; DISHLEVIY, P.S.

Significance of Lenin's philosophical ideas for modern physics. Visnyk
AN URSR 28 no.4:3-11 Ap '57.

(Fhysics--Philosophy) (Lenin, Vladimir, Il'ich, 1870-1924)

VIL'NIANSKIY, S.I., professor; FUKS, S.L., professor, otvetstvennyy redaktor; SHEVSHENKO, A., redaktor; CHERNYSHENKO, Ya.T., tekhnicheskiy redaktor.

[Kreditno-raschetnye pravootnosheniia; uchebnoe posobie [Khar'kov] Izd-vo Khar'kovskogo univ. [1955] 55 p. [Microfilm] (MIRA 10:5) (Banks and banking)

VILNIS, K.K.; POLLYAK, V.V.; STEPANENKO, M.G.

Most satisfactory temperature conditions for the melting end of glass tank furnaces. Stek. 1 ker. 15 no.4:1-5 Ap !58. (MIRA 11:5)

1. Institut stekla. (Glass furnaces)

15(2), 15(6) AUTHORS:

Vilnis, K. K., Stepanenko, M. G.

SOV/72-52-3-3/19

TITLE:

Heat Exchange Between the Charge and the Hearth of the Glass Melting Furnace (Teploobmen mezhdu shikhtoy i plamennym

prostranstvom steklovarennoy pechi)

PERIODICAL:

Steklo i keramika, 1959, Nr 3, pp 8 - 11 (USSR)

ABSTRACT:

The authors state that data contained in publications are very contradictory with respect to the dependence of the melting rate of glass as well as the furnace efficiency on temperature (Figs 1 and 2), and are therefore not a reliable basis for the intensification of the melting process in tank furnaces. Relatively few investigations have so far been carried out in the field of heat exchange research (D. B. Ginzburg, Ref 1). The present paper offers an explanation of heat exchange between the upper furnace structure, the charge, and the charge foam in the melting region, basing on K. K. Vilnis' paper (Ref 2). Figure 3 shows the dependence

Card 1/2

of temperature of the charge surface on the magnitude of

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859820008-0

Heat Exchange Between the Charge and the Hearth of the SOV/72-59-3-3/19 Glass Melting Furnace

the heat current flowing onto it, and figure 4 depicts the heat amount absorbed by the charge. Figure 5 gives the variations of temperature in every point of the charge surface. The heat amount absorbed by the melting zone depends, firstly, on the ratio of the areas occupied by the charge and the charge foam, and secondly, on the magnitude of the absolute temperature in the upper structure. The efficiency increase of tank furnaces for glass melting is not only brought about by providing high temperatures, but also by the rational exploitation of the heat exchange both in the gas zone and in the glass mass. Further accurate investigations are required for this purpose. There are prigures and 4 references, 3 of which are Soviet.

Card 2/2

15(2) AUTHORS:

SOV/72-59-6-7/18 Vilnis, K. K., Pollyak, V. V., Soskova, V. D.

TITLE:

A Device for Taking Samples From Deep Frit Layers (Pribor dlya

vzyatiya glubinnykh prob steklomassy)

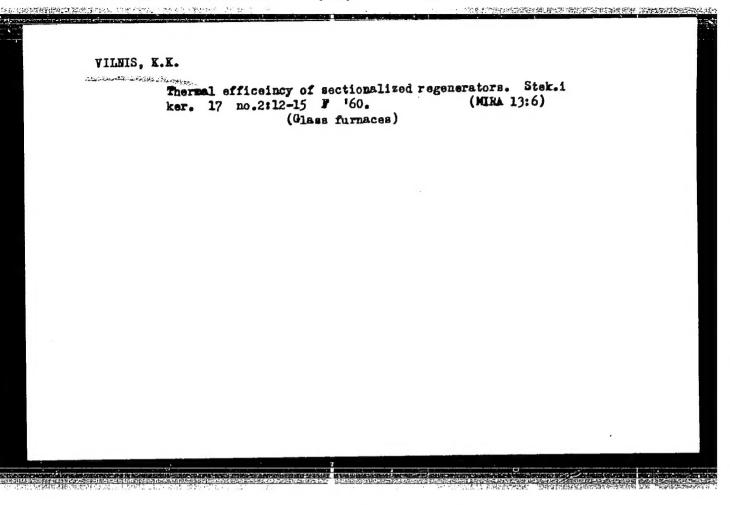
PERIODICAL:

Steklo i keramika, 1959, Nr 6, pp 32 - 35 (USSR)

ABSTRACT:

The authors of this article discuss the disadvantages of ordinary devices for taking frit samples which do not allow to take pure samples from deep frit layers. On the basis of investigations performed by the teplotekhnicheskaya laboratoriya Instituta stekla (Laboratory for High-temperature Research of the Glass Institute) a new construction of the device as well as a new method for the afore-mentioned purpose were worked out. The new method is based on the principle that the glass frit is sucked in on a certain level by creating vacuum with an injector. The general view, the longitudinal section, and the injector of the device are illustrated in figures 1,2, and 3 and then described. There are 3

Card 1/1



Specific amount of glass output as an indicator of the productivity of tank furnaces. Stek.i ker. 17 no.3:9-14 %r '60.

(Glass furnaces) (Glass manufacture)

VILNIS, K.V., Grah.; STEPANFIKO, M.G., doktor tolkn. mak [decoased];

Optimal depth of furnaces for dark green glass. Stek. i ker. 21 no.1:9-13 Ja '64. (MIRA 17:8)

1. Institut stekla (for Vilnis, Stepanenko). 2. Krasnodarskiy stekol'nyy zavod (for Kaplan).

TO PERSON AND PROPERTY OF THE PROPERTY OF THE

VILNIS, R. (Riga)

Changes in composition and properties of peat by drying it with superheated water vapor under pressure. Vestis Latv ak no.10: 65-70 *59. (EEAI 9:10)

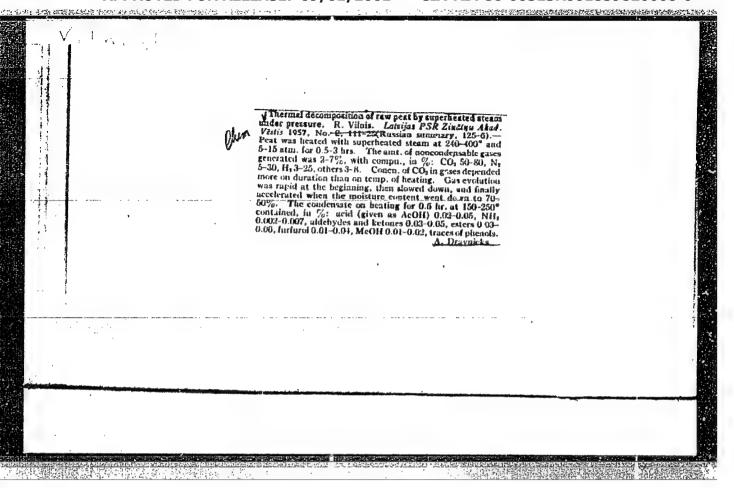
1. Akademiya nauk Latviyskoy SSR, Institut energetiki i elektrotekhniki.
(Peat) (Water)

VILNIS, R. (Riga); MIKHAYLOV, Yu. (Riga)

Mechanical and water absorption properties of heat-treated peat briquettes. In Russian. Vestis Latv ak no.4:91-98 '60. (EEAI 10:7)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859820008-0



VILNIS, R

PA - 2526

AUTHOR TITLE

The Chemical Decomposition of raw Peat during the Process of Drying by means of superheated steam. ("termitscheskoje ras-

loshenije syrogo Torfa pri suschke peregretym parom pod

dawleniem".- Russian)

Latvijas PSR Zinatu Akad. Westis 1957, Vol 1, Nr 2 (115)

pp 125 - 126 (U.S.S.R.)

Reviewed: 6/1957

ABSTRACT

PERIODICAL

With rising temperature decomposition increases as measured in layers of peat. The botanical composition of peat exercises influence on the process of decomposition. During the process of drying the steam contains from 0,2 to 1,3 % not condensed gases. With longer duration and increased pressure the percentage increases accordingly, and in the case of shorter duration and diminished pressure it decreases. The oxygen content in the organic mass of peat decreases with rising

temperature and longer duration of the process. The results obtained show that by the modification of the drying process and the initial material the decomposition of peat as well as the quality of the products obtained can be regulated. The results obtained by research work can be used

CARD 1/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859820008-0

PA - 2526

The Chemical Decomposition of raw Peat during the Process of Drying by means of superheated steam.

for the determination of optimum conditions for the process of drying and for the purpose of obtaining high-quality peat.

ASSOCIATION: not given.

PRESENTED BY: SUBMITTED: -

AVAILABLE:

Library of Congress.

CARD 2/2

ALABUZHEV, P.M., prof.; VIL'NIT, L.N., starshiy prepodavatel; KOPEYKIN, G.F., starshiy prepodavatel; TSIVINSKIY, Yu.P., inzh.

Movement of the striker and body of an electromechanical hammer drill with a striker-restraining mechanism. Izv. vys. ucheb. zav.; gor. zhur. no.6:74-80 '61. (MIRA 16:7)

1. Novosibirskiy elektrotekhnicheskiy institut. Rekomendovana kafedroy mekhaniki.

(Boring machinery)

GEL'FLIN, N.I., doktor tekhn.nauk, prof.; AYNSHTEYN, V.G., kand.tekhn.nauk; KVASHA, V.B., kand.tekhn.nauk; KOGAN, A.S., inzh.; VIL'NITS, S.A., kand.tekhn.nauk

Apparatus for classifying free-flowing materials in a fluidized bed.

Khim.mashinostr. no.6:11-16 N-D '63. (MIRA 17:2)

GUL', V.Ye.; TSARSKIY, L.N.; VIL'NITS, S.A.

Rupture during transition from the elastic to the brittle state [with summary in English]. Koll. zhur. 20 no.3:318-325 '58.

(Rubber-Testing) (MIRA 11:8)

VIL'NITS, S.A., GUL', V.YE.

The prospects of splitting and tissue removal of rubber, waste products in the production of commercial rubber articles.

Report submitted for the 4th $^{\rm S}$ cientific research conference on the chemistry and technology of synthetic and natural rubber, Yaroslavl, 1962

VIL'NITS, S.A.

VIL'NITS, S.A. -- "Investigation of Certain Problems of the Hydro-dynamics of Non-extraction Apparatus." Sub 20 Nov 52, Moscow Inst of Fine Chemical Technology imeni N.V. Lomonosov. (Dissertation for the Degree of Candidate in Technical Sciences.)

SO: VECHERNAYA MOSKVA, January-December 1952

一、公司的自己的政治企业的证明,但是自己的自己的特殊的。

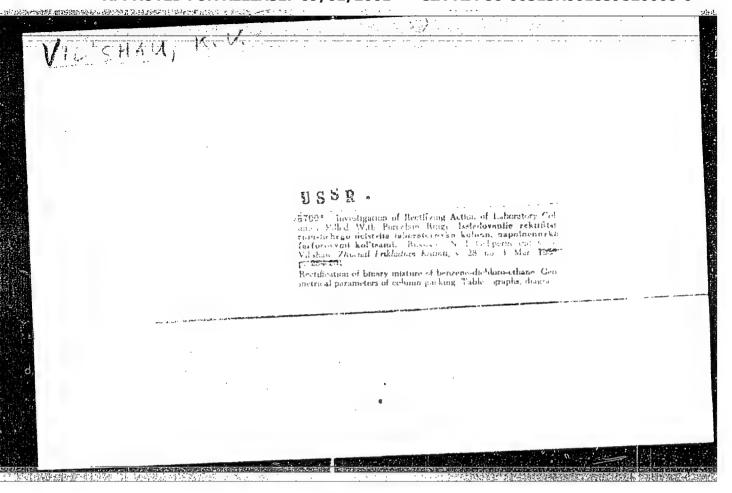
ZINOV'YEV, Vladimir Andreyevich, prof.; PRISHED'KO, Nikolay
Avtonomovich; VIL'NITS, Samuil Avseyevich; RUZHENTSEV, S.K.,
prof.; MESHKOV, P.I., inzh., red.; NIKITIN, A.G., red. izd-va;
MODEL', B.I., tekhn. red.

[Machine parts] Detali mashin. Pod red. Vl.A.Zinov'eva. Moskva, Mashgiz, 1960. 327 p. (MIRA 15:5) (Machinery—Design)

SHTOKALO, 1.Z., akademik, red.; BOGULYURAV, N.N., akademik, red.;
GLUSHKOV, V.M., akademik, red.; AKHIYEZER, A.I., akademik,
red.; PARASYUK, O.S., akademik, red.; ECFNIN, i.V., ioktor
filosofskikh nauk, red.; VIL NITSKIY, N.B., kand. fil. nauk,
red.; DYSHLEVYY, P.S., kard. fil. nauk, red.; RUCHER, V.I.,
red.

[Philosophical questions of modern physics; materials] Filosofskie voprosy sovremennoi fiziki; materialy. Kiev, Haukova dumka, 1964. 325 p. (MIRA 17: 19)

1. Respublikanskoye soveshchantye to filosofakim voprosum fiziki elementarnykh enastits i poley. Kiev. 1962. 2. Vitopprezident AM Ukr.SSR (for Glushkov). 3. Ukrainskiy fizikotekhnicheskiy institut (for Akhipezer). 4. Institut matematiki AM Ukr.SSR (for Parasyuk). 5. Institut filosofii AM Ukr.SSR (for Dysilevyy, Kopnin).

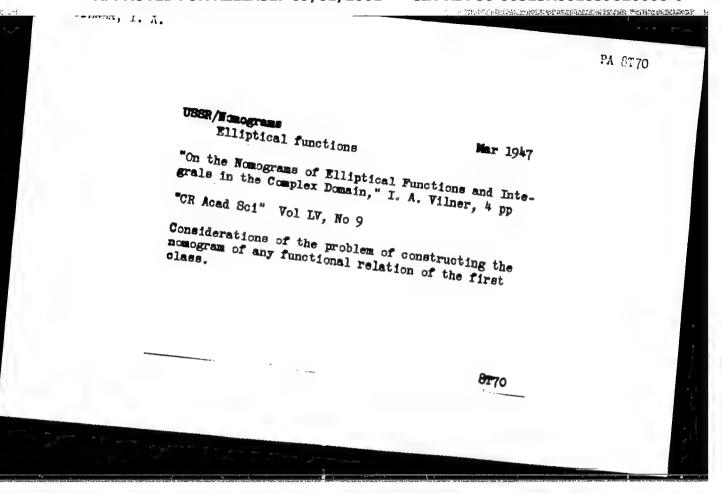


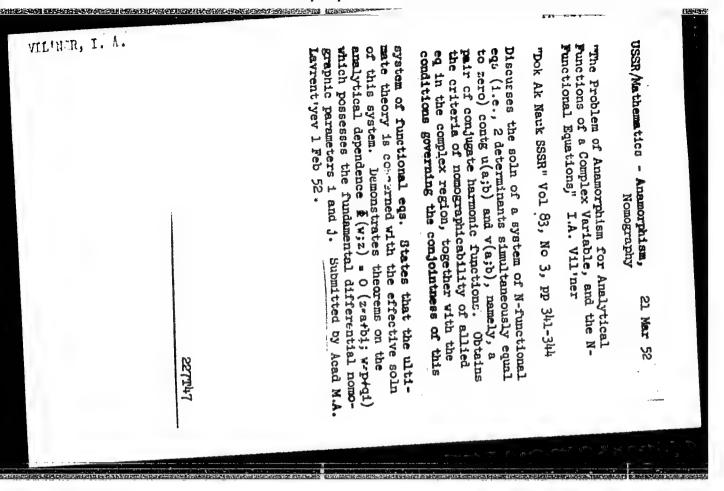
- 1. VIL'NER, I.A.
- 2. USSR (600)
- 4. Differential Invariants
- 7. Algebraic solution to the problem of anamorphosis of functions in an invariant form, Dok: AN SSSN 90 no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

- VILINER, I.A. 1.
- USSR (600)
- Functions
- 7. Algebraic solution to the problem of anamorphosis of functions in an invariant form, Dokl.AN 333R 90 no. 1, 1953.

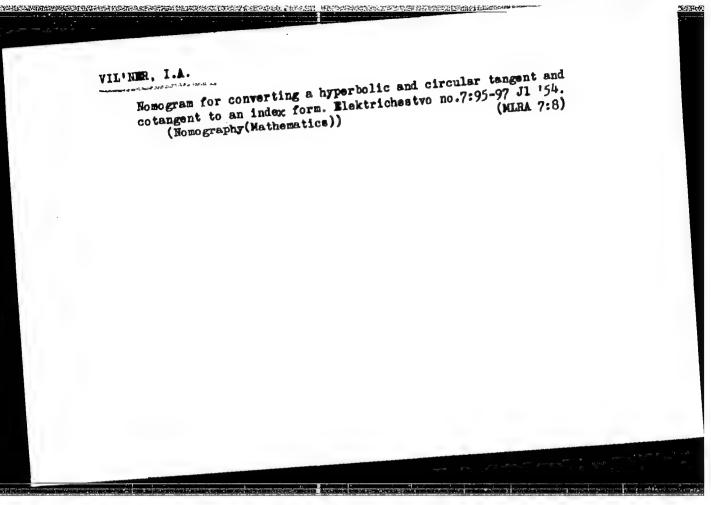
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.





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| | Vil'nar, I.A. A problem of a | mamorphism. | n 1053. Vol. | 77. Ho.2, P. | 177 | |
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VILLER, I. ...

AID P - 471

Subject

: USSR/Electricity

Carć 1/1

Pub. 27 - 34/34

Author

Title

: Vil'ner, I. A. Nomogram for Conversion of the Hyperbolic and Circular

Tangent and Cotangent into a Exponential Form

Periodical

Elektrichestvo, 7, 95-97, Jl 1954

Abstract

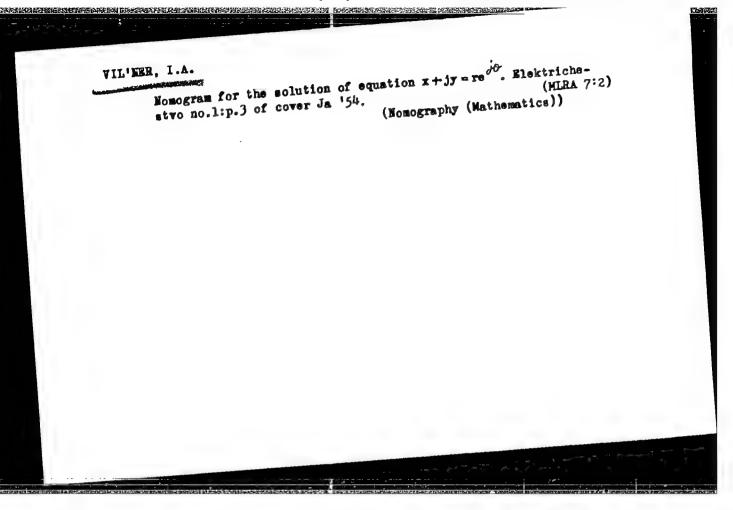
Two tables, diagram, and an explanatory text.

Institution:

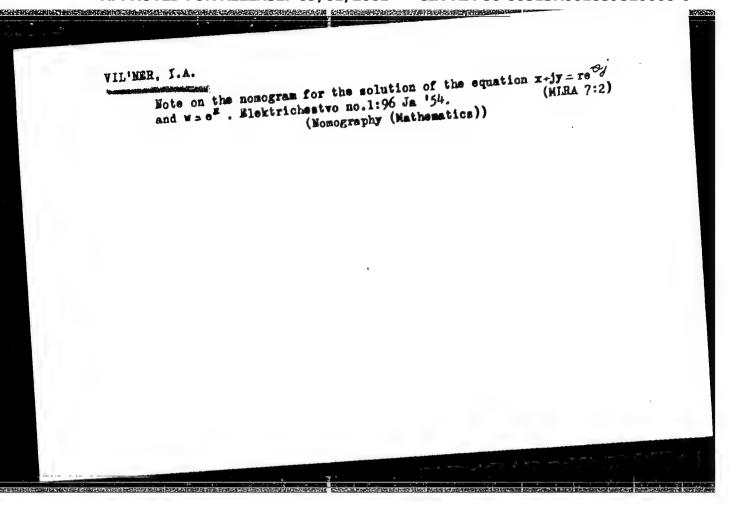
None

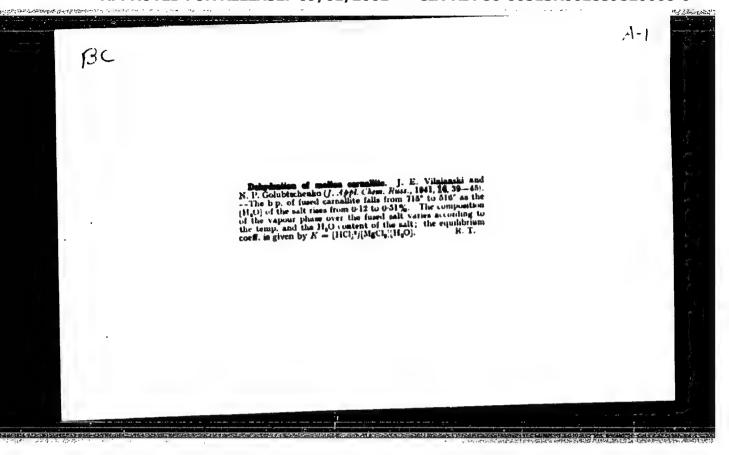
Submitted

: No date



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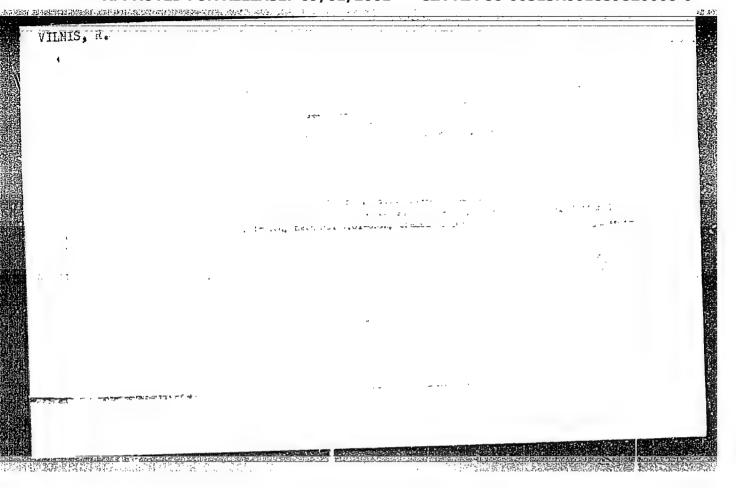


VILNIS, J.

Beeksepers need help; a letter to the editor.

P. 21. (PADOMJU LATVIJAS KOLCHOZENIEKS) (Riga, Latvia) Vol. 10, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958



Tapered wing surface guaranteeing minimum wave resistance at
a given volume. Izv.vys.ucheb.sav.; av.tekh. 2 no.3:136-142
159.

1. Novosibirskiy elektrotekhnicheskiy institut. Kafedra
teoreticheskoy i prikladnoy mekhaniki.
(Airfoils)

ACC NR: ATTENDED BOUNCE CODE: UR/0000/66/000/0005/0004-

AUTHOR: Vilnitis, A. Ya.

ORG: none

TITLE: Transverse edge effect in plane induction magnetohydrodynamic machinery

SCURCE: AN LatSSR. Institut fiziki. Dvizheniye provodyashchikh tel v magnitnom pole (Movement of conducting bodies in magnetic field). Riga, Izd-vo Zinatne, 1966, 63-94

TOPIC TAGS: mhd, liquid metal pump, electromagnetism, hydrodynamics

ABSTRACT: A simplified model of an induction magnetohydrodynamic machine is used and the results of calculations initially obtained for ordinary induction machinery are employed for the calculations. The analogy between problems in the theory of rotating machinery and problems in the theory of induction mad is described and the similarities and differences are outlined. Ways of obtaining engineering formulas from the available analytic solutions, which for the most part are in terms of series of trigonometric or other functions, are discussed. The results of calculations of the transverse edge effects, published in the literature under the assumption that the liquid metal moves like a rigid body, as well as with allowance for the properties of the liquid itself, are referred to. Separate solutions are presented for infinitely broad and for limited-width gaps. The results of the earlier theoretical papers by A. I. Vol'dek (Izvestiya vysshykh uchebnykh zavedeniy, Elektromekhanika, 1959, no. 1) are reviewed and later modifications to them are described. Other theories are

Card 1/2

ACC NR: AT7001355

also briefly mentioned. The possible applications of the theoretical results are discussed. It is concluded that while the distributions of the fields and currents in a rectangular plate between two infinitely broad and long inductors has been solved to a satisfactory degree, the use of computers is dictated for most applications. The application of the obtained results in design practice is limited because of the rather simplified model used compared with the complexity of the real pump. The difficulties in the development of the theory for a channel of finite width are mentioned, as well as the lack of a unified theory that makes allowance for the conditions in the liquid itself. The need for developing a hydrodynamic solution for a liquid-metal channel separated into several parts by longitudinal partitions is emphasized. Orig. art. has: 9 figures and 50 formulas.

SUB CODE: 20, 09/ SUBM DATE: 22Ju166/ ORIG REF: 011

Card 2/2

· (1) 在1907年1912年於北京的新疆中国的新疆域 斯坦特的特征

L 00468-66

ACCESSION NR: AP5019974

UR/0371/65/000/002/0003/0018

AUTHOR: Vilnitis, A. (Vilnitis, A. Ya.)

TITLE: Field and current distribution in a conducting body of rectangular section, placed between two infinite inductors and subjected to a sinusoidal traveling magnetic field

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhricheskikh nauk, no. 2, 1965, 3-18

TOPIC TAGS: modified infinite waveguide, waveguide current distribution, nonconducting gap traveling wave, conducting body magnetic distribution, conducting body current distribution

ABSTRACT: Two infinitely wide and long inductors of infinite magnetic permeability are spaced 26 apart, and carry a current load in the form of a sinusoidal traveling wave. The inductor interspace contains a conducting object of rectangular cross section 26 thick and 2a wide extending in the direction of wave propagation. The author solves the problem of magnetic field and current distribution within the conducting body exactly in the form of single and double trigonometric series. The solution is given in four different formulations.

In the region beyond the boundaries of the conducting body (where the conductivity

L 00468-66

ACCESSION NR: AP5019974

is zero) the field is the same as in the absence of the conductor. The transverse component of the magnetic induction is missing but all three components of induction currents are encountered. The magnitude of such currents depends on the width of the conducting body. Orig. art. has: 100 formulas and 4 figures.

ASSOCIATION: Institut fiziki AN Latv. SSR (Physics Institute, AN Latv. SSR)

SUBMITTED: 04Sep64

ENCL: 00

SUB CODE: EC, EM

NO REF SOV: 003

OTHER: 000

Card 2/2

124-1957-1-442

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 56 (USSR)

AUTHORS: Gel'perin, N.I., Vil'nits, S.A.

TITLE: The Outflow of Liquids From Standard Short Tubes and Openings

With Small Diameters (Istecheniye zhidkostey iz nasadok i

otverstiy malykh diametrov)

PERIODICAL: Tr. Mosk. in-ta tonkoy khim. tekhnologii, 1955, Nr 5, pp

27-36

ABSTRACT: The article describes the test set-up and proffers the results of experiments conducted for the determination of the coefficient

of discharge for eight kinds of liquids from cylindrical standard tubes with diameters varying between 0.445 and 1.5 mm and apertures between 0.25 and 1.3 mm. The project was performed to conform with the conditions obtaining during the extraction of substances by means of solvents from liquid solutions at chemical industrial plants. Experimental relationships are offered in criterional form (in terms of the Reynolds number and a term consisting of a ratio of the viscous and capillary forces) for the

determination of the coeff. of discharge for solid jets and for jets broken up into detached drops, and for the determination of the

Card 1/1 boundary between these two regimens. M.S. Volynskiy

1. Fluid flow--Velocity 2. Tubes--Applications

GUL', V.Ye.; VIL'NITS, S.A.

Effect of temperature on the rate of growth of cuts in vulcanized rubber. Nauch. dokl. vys. shkoly; khim. i khim. tekh. no.2:365-368 (MIRA 11:6)

1. Predstavlena kafedroy fiziki Moskovskogo instituta tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. (Pubber-Testing)

69-20-3-10/24

AUTHORS:

Gul', V.Ye.; Tsarskiy, L.N.; Vil'nits, S.A.

TITLE:

The Process of Rupture in the Region of Transition From the Elastic to the Brittle State (Issledovaniye protsessa razryva v oblasti perekhoda ot elasticheskogo k khrupkomy

sostoyaniyu)

PERIODICAL:

Kolloidnyy zhurnal, 1958, vol XX, Nr 3, pp 318-325 (USSR)

ABSTRACT:

The rupture of vulcanizates is a process lasting a certain time. In the article, experiments are mentioned in which this process has been studied by means of high-speed cinematography. More than 300 moving pictures were taken. The analysis of the pictures has shown that the speed of rupture in the temperature range from +22 to -57°C is very small in the initial stages and increases rapidly immediately before the complete rupture. At a temperature decrease from +22 to 0° the rupture speed decreases from 2,500 mm/sec to 100 mm/sec. This is due to an increase in the bonds of intermolecular interaction. At temperatures of -50°C and lower the rupture speed attains a value of 3,000 mm/sec. The temperature decrease is also accompanied by a decrease of the additional orientation of the material. At very low

Card 1/2

May 3, 1957

69-20-3-10/24

The Process of Rupture in the Region of Transition From the Elastic to the Brittle State

temperatures, the reduction of additional orientation becomes so large that the speed of rupture increases again. A correlation exists not only between the temperature and the speed of rupture, but also between temperature and mechanical properties of the rubber. At the transition from the high-elastic to the brittle rupture mechanism, an abnormal change in the resistance to rupture is observed, together with a change in temperature. In the temperature regions characterized by the elastic and brittle rupture mechanisms, an increase in the stability of the material is observed. At the transition from the elastic to the brittle rupture, the stability of the material is reduced as a consequence of changes in the structural characteristics of the material. There are 11 graphs and 8 references, 7 of which are Soviet and 1 German.

ASSOCIATION:

Moskovskiy institut tonkoy khimicheskoy tekhnologii, Moskva (Moscow Institute of Fine Chemical Technology, Moscow)

SUBMITTED: Card 2/2

1. Vulcanizates-Transition 2. Vulcanizates-Rupture

VILINITS, S.A.; BABITSKIY, B.L.

Results of the All-Union Scientific and Technical Conference on the Reclaiming of Polymeric Materials in the National Economy. Kauch. 1 rez. 24 no.2:53-54 F 165.

(MIRA 18:4)

USSR Chemical Technology. Chemical Products

H-2

and Their Application

Processes and Apparatus for Chemical Technology

Abs Jour: Referat Zhur - Khimiya, No. 1, 1958, 1506

: Gel'perin N.I., Vil'nits S.A. Author

: Moscow Institute of Fine-Chemical Technology Inst

Title. Dispersion of Liquids on Outflow from Nozzles

into Air and Fluid Media.

Tr. Mosk. in-ta tonkoy khim. tekhnol., 1956, Orig Pub:

No 6, 111-116

Abstract: An experimental study of the regularities of

changes in the size of drops that are formed on outflow of liquids from small diameter nozzles into air, under liquid-drop conditions, and into

Card 1/4

USSR /Chemical Technology. Chemical Products
and Their Application
Processes and Apparatus for Chemical Technology

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1506

fluids immiscible with the outflowing, under liquid-drop and jet conditions. It was found that in cases of an outflow of liquids into air and into fluid media the determinant criteria of the process are: Re, K and η_{\times} , where Re -- Reynolds criterion; K -- a new criterion proposed by the authors (K= W η /G), W -- outflow velocity, η -- viscosity, G -- surface tension); $\eta_{\times} = (\eta_{\times} + 5\eta_{\times} + 1) + \eta_{\times} + \eta_$

Card 2/4

USSR /Chemical Technology. Chemical Products and Their Application Processes and Apparatus for Chemical Technology

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1506

drop, D -- diameter of nozzle aperture, n_0 -- relative viscosity of outflowing liquid (in relation to water). On outflow of liquids into other fluid media the diameters of the drops that are formed can be determined from the correlation: $d/D = 4600 \text{ K}^{0.42} / (n_{\text{K}} \text{ Re}^{0.504})$. For the determination of phase contact surface in packing-free extraction apparatus there is proposed the equation: $F_1 = n_{\text{K}} / (766.6 \text{ D}) / (\text{Re}^{0.252} / \text{K}^{0.21})$, where $F_1 = 10.2 \text{ total surface of all drops}$ on dispersion of 1 m³ of liquid. It is noted that the last mentioned equation makes it possible to investigate the mass-exchange process during extraction and also serves for design calculations of packing free extraction apparatus. The assump-

Card 3/4

USSR /Chemical Technology. Chemical Products and Their Application Processes and Apparatus for Chemical Technology

H-2

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1506

tion is made that criterion K plays an important part not only in the mathematical characterization of the process of outflow and of the processes of drop-formation, but also in those processes wherein alongside with the viscosity, are manifested the forces of surface tension.

Card 4/4

VILIBITSKIY, Moisey Borisovich [Villeyts'kyi, M.B.]; KHAMANET, S.F., red.

[Experiment in modern science] Eksperiment u suchasnii nautsi. Kyiv, Naukova dumka, 1965. 73 p. (MIRA 18:9)

(MIRA 12:12)

VIL'NITSKIY. Moisey Borisovich [Vil'nyts'kyi, M.B.]; DYSHLEVYY, P.S., kand.filosof.nauk, otv.red.; BRATKO, Z.T., red.; MIL'OKHIN, I.D., tekhn.red.

[Some philosophical problems in the special theory of relativity] Deiaki filosofs'ki pytannia spetsial'noi teorii vidnosnosti. Kyiv, Vyd-vo Akad.nauk URSR, 1959. 194 p.

(Relativity (Physics))

VIL'NITSKIY, Moisey Borisovich

[History of the development of the idea of space and time in classical physics] K istorii razvitiia predstavlenii o prostranstve i vremeni v klassicheskoi fizike. Kiev, Isd-vo Akademii nauk USSR, 1955. 234 p.

(Physics--Philosophy)

GURVICH, Sokrat Solomonovich, dots.; VIL'NITSKIY, M.B., kand. filos. nauk, otv. red.; NICHIK, V.M., kand. filos. nauk, otv. red.; POTOTSKAYA, L.A., tekhn. red.; CHUCHUPAK, V.D., tekhn. red.

[The laws and categories of dislectics and their manifestation in medicine] Zakony i kategorii dialektiki i ikh proiavlenie v meditsine. Kiev, Gosmedizdat, 1962. 244 p. (MIRA 15:4) (MEDICINE—PHILOSOPHY) (DIALECTICAL MATERIALISM)

VILYANSKIY, I. P. -- Moscow

"Arteriography in Cases of Obliterating Endarteritis."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow, 23-28 May 1960.

BELOV, I. V.; VIL'NYANSKIY, I. Ya.

Thermal efficiency, heat receptivity of the metal, and oxidizing capability of open hearth furnaces during oxygen and compressed air feed to the flame. Izv. vys. ucheb. zav.; chern. met. 5 no.12:153-161 62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel skiy institut metallurgi-cheskoy teplotekhniki.

Open-hearth furnaces-Combustion)

BELOV, I.V.; VIL'NYANSKIY, I.Ya.

Speed of carbon exidation and the heating of a smelting bath during the finishing period. Izv. vys. ucheb. sav.; chern. met. 6 no.41 (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel skiy institut metallurgicheskoy teplotekhniki.

(Open-hearth process —Testing)

18.3200

| 155 445 | **307/**135+13410-5/55

AUTHORS:

Belov, I. V. (Candidate of Technical Sciences), Vil'nyanskiy, I. Ya., Glazkov, P. G., Krasnozhen, D. Ye., Telesov, S. A., Berger, N. I. (Engineers)

TITLE:

Delivery of Air to Gas Ports by Fan to Intensify the Melting Process

PERIODICAL:

Stal', 1959, Nr 10, pp 889-893 (USSR)

ABSTRACT:

Partial combustion of gas in the doghouse occurs by fan-blown air at an approximate pressure of 600-mm water column, improving flame characteristics and drastically cutting power consumption for air blowing (7 to 10 times) in comparison to consumption by compressors or turbo-blowers. Blowing equipment is simple and provides an easy way of controlling air supply. At Stalino and Mizhniye Sergi Metallurgical Plants (Stalinskiy zavod, Nizhne-Serginskiy zavod), fan blowing was installed in 1953.

Card 1/4

At Stalino Plant, open-hearth furnaces work by

Delivery of Air to Gas Ports by Fan to Intensify the Melting Process

75345 **SOV/**133-53-10-6/33

The birth of the same of the s

scrap-ore process with liquid cast iron and are coke-oven gas-fired. In discussing furnace performance figures and temperature rates, the authors compare the new and the original production (see table). The following engineers contributed to the research: Tuluyevskiy, Yu. N., Ofengenden, A. M., Druzhinin, I. I., Nesterovich, R. P., Pokrass, L. M., Moysiyevich, G. I., Postnikov, Yu. D., et al. The authors conclude as follows: (1) Partial gas combustion in open-hearth furnace ports by cold air blown into the doghouse is only beneficial with an adequately high level of thermal load. (2) Intensification of the melting process by the above method is recommended for overcharged and, partieularly, double-charged furnaces. (3) The forced air/thermal load ratio can be adjusted by controlling temperature rates of the checkers. (4) Automatic control would greatly promote the effectiveness of partial fuel combustion in the port. There are 4 figures; 1 table; and 2 Soviet references.

Card 2/4

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859820008-0

Delivery of Air to Gas Ports by Pan to Intensify the Melting Process

1994 2077 : 1994 (-1994)

ASSOCIATION:

All-Union Scientific Research Institute of Metallurgical Thermal Technology, Stalino and Michalye Sergi Metallurgical Plants (VNIIMT, Stallackly 1 Nizhne-Serginskiy metallurgicheskiya zavol)

Card 3/4

Delivery of Air to Gas Ports by Fan to Intensify the Melting Process

15945 807/173-59-10-6/17

Basic Performance of Figures of Experimental Melting Without (numerator) and With (denominator) Air Delivery by Fan

| Performance Figures | Open-hearth Farmade | | |
|--|---------------------|----------------|------------------|
| | A | 13 | €, |
| Number of Melts | 1 2 | 22. | 10 |
| Melting Period, hrs - min | 9-10 3-47 | | 2 <u>5</u> 32 |
| Mean Thermal Load per Melt, 100 cal/h | | 18.00 | 11. |
| Furnace Productivity, t/h | 14.52 15.39 | 14.59 10.38 | |
| Arbitrary Fuel Consumption, kg/t Card 4/4 | 186 175 | 182 158 | 6. N 25 |

BELOV, I.V.; VIL'NYANSKIY, I.Ya.

Thermal efficiency of heat absorption by metals and the oxidizing capacity of open-hearth furnaces with oxygen and compressed air fed to the fuel spray. Izv. vys. ucheb. zav.; chern. met. 6 no.6:172-178 '63. (MIRA 16:8)

1. Vsesoyuzmyy nauchno-issledowatel'skiy institut metallurgicheskoy teplotekhniki.

(Heat-Radiation and absorption) (Open-hearth furnaces-Combustion)

VIL'HYANSKIY, L.I., kand.wed.nauk; PALEY, A.Yu., kand.wed.nauk (Khar'kov)

VIL'HYANSKIY, L.I., kand.wed.nauk; PALEY, A.Yu., kand.wed.nauk (Khar'kov)

Pulmonary sercoidosis (Boeck's disease). Klin.med. 35 no.11:47-54
(MIRA 11:2)

1. Is Ukrainskogo nauchno-isaledovatel'skogo instituta tuberkuleza (dir. - dotsent W.M.Yenov)

(RARGOIDOSIS, case reports

lungs)

(LUNG DISHASMS, case reports

sercoidosis)

KLEBANOV, M.A., prof. (Kiyev); Prinimali ushastiye: BEREZITSKIY, A.V. (Kiyev);
PEKAR!, P.P.; SAVENKOV, D.I.; TARAMENKO, M.I.; RELAMED, M.A.;
BORSHCHEVSKIY, M.L. (Odessa); VIL'NYANSKIY, L.I. (Khar'kov);
SOKOLOVA, Yu.I. (Khar'kov); ABERMAN, A.A.; KULAKOVA, S.A. (Simoferopol');
PUKS, R.A. (Dnepropetrovsk); BEZNOSOVA, Zh.A. (Vinnitsa); KUKLINA,
N.P. (Zhitomir); SIDORENKO, G.P. (Chernovitsy); D'YACHENKO, N.S.
(Standslav).

Reduction in the periods of therapeutic pneumothorax following its
use in combination with antibacterial therapy. Vrach. delo no.12:
36-40 D '60. (MIRA 14:1)

1. Ukrainskiy institut tuberkulesa imeni F.G.Yanovskogo (for Klebanov).
2. Dispanser Yugo-Zapadnykh zheleznykh dorog (for Aberman).

(PNEUMOTHORAX) (TUBERCULOSIS)

VIL'NYANSKIY, L. I., doktor med. nauk; MASLENNIKOVA, N. K., kand. med. nauk (Khar'kov)

Use of sulfanilamide substitutes for insulin in diabetes mellitus complicated by pulmonary tuberculosis. Klin. med. 40 no.7:74-78
J1 !62. (MIRA 15:7)

1. Is Ukrainskogo nauchno-issledovateliskogo instituta tuberkuleza.

(SULFANILAMIDES) (DIABETES) (TUBERCULOSIS)

VIL'NYANSKIY

USSR/Pharmacology and Toxicology. Chemotherapeutic Preparations V-7 intibubercular Drugs

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 71294

: Villnyonskiy L. T. Author

: Kharkov Scientific Medical Society, Ukrainian Institute for Inst

the idvanced Training of Physicians

: Phthivazid in the Complex Treatment of Patients . ffected with Title

Tuberculosis and Diabetes Melitus

Orig Pub : Nauchn. tr. Khar'kovsk. nauchn. med. o-vo, Ukr. in-t

usoversh. vrachey, 1957, cyp. 8, 110-119

Abstract : Twenty-one patients suffering from tuberculosis and diabetes melitus were treated with phthivazid (P). P was adminis-

tered both alone and in combination with streptomycin or PAS, and with collapse therapy. Daily dose was 1-1.5 g.; for a course

of treatment, 60-135 g. In patients with closed forms of tuberculosis, P produced an improvement, expressed in the removal of the symptoms of intoxication and resorption of the infiltrative changes in the lungs. Abatement of the

: 1/2 Card

USSR/Pharmacology and Toxicology. Chemotherapeutic Preparations intitubercular Drugs

V-7

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 71294

of the tuberculous outbreak in the process of treatment usually did not improve the course of diabetes melitus, and in single cases produced an increase of hyperglycemia and glycosuria. In patients with the presence of disintegration in the lungs, only in 4 out of 16 an improvement of the process was observed. The patients with diabetes melitus tolerate P well, and only in single cases an increase of inculin doses was needed. It is noted that in 4 out of 10 patients affected with tuberculosis not accompanied by diabetes, a single administration of P (0.5-1 g.) produced considerable rise of the sugar level in the blood. -- 0.V. Petrova

Card : 2/2

VIL'NYANSKIY, Ya. Ye.; SAVINKOVA, Ye. I.; BYCHIKHINA, L. S.

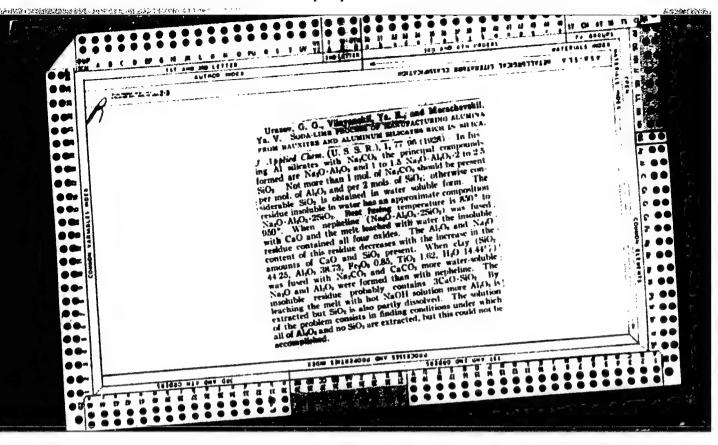
Rapid method for the determination of hydrogen in dehydrated carnallite. TSvet. met. 35 no.10:80-81 0 162. (MIRA 15:10)

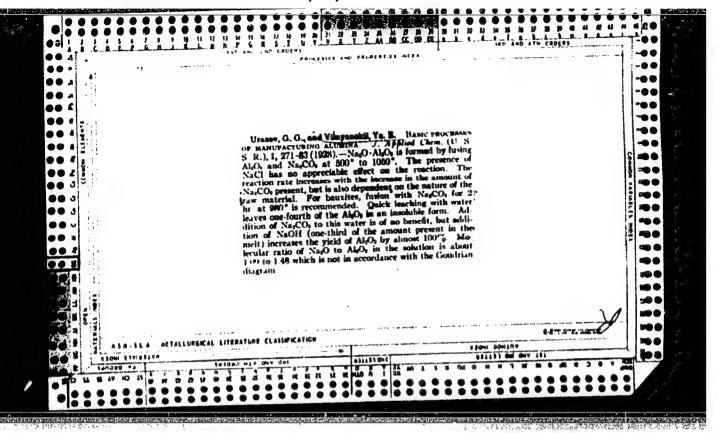
(Carnallite-Hydrogen content)

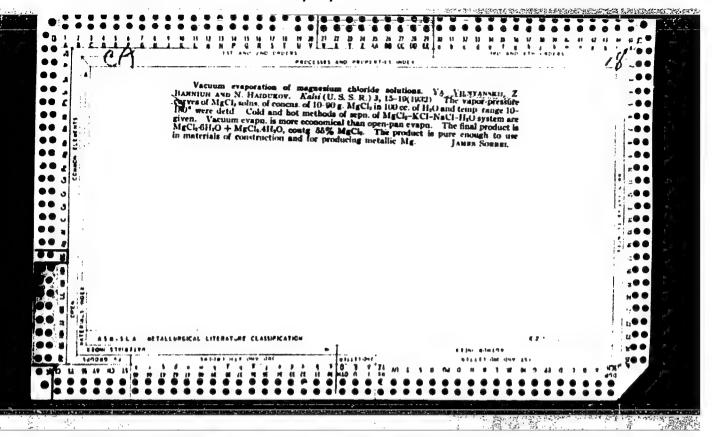
Role of a melt in the process of exidizing ressting of chromite charges, Zhur, prikl, khim. 38 no.6:7206-1211 Je 165.

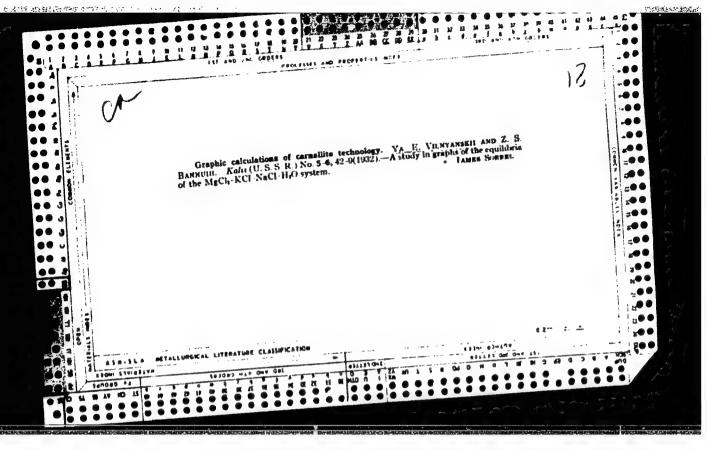
(MJRA 18:10)

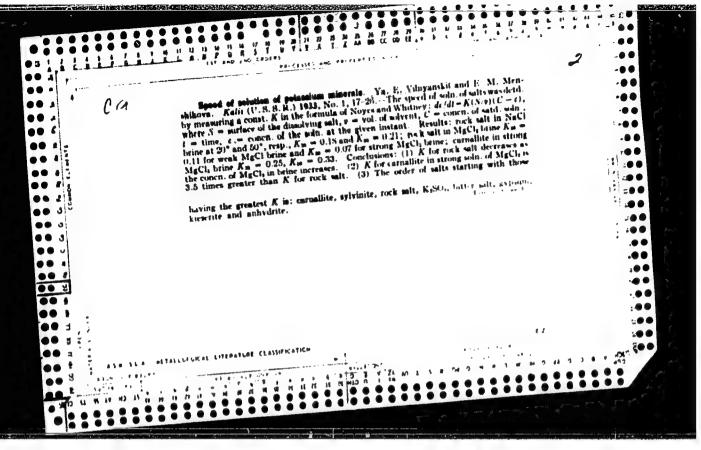
1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.

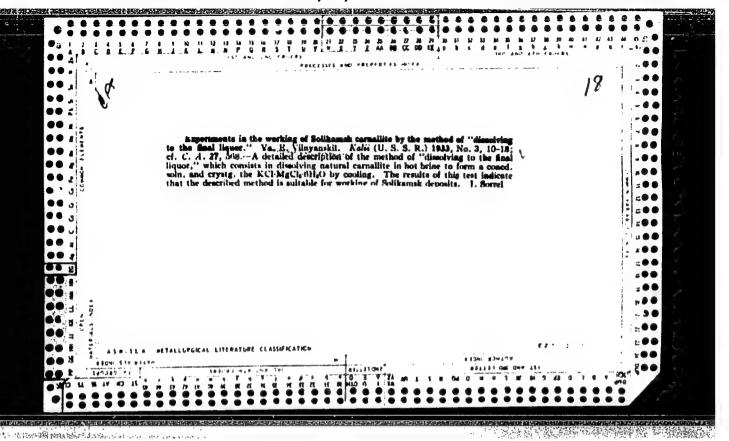


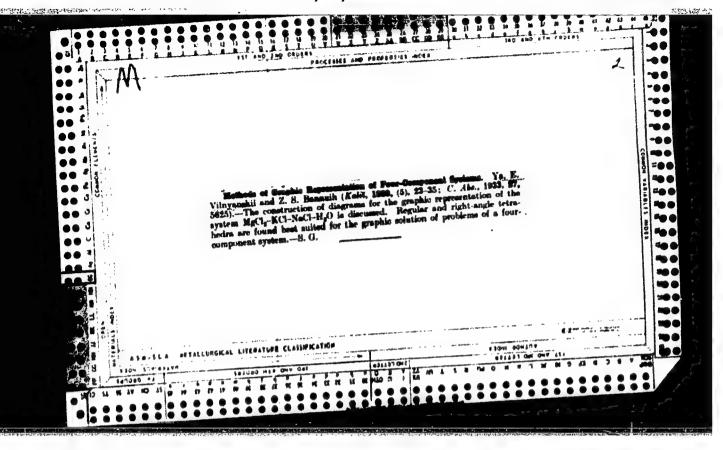


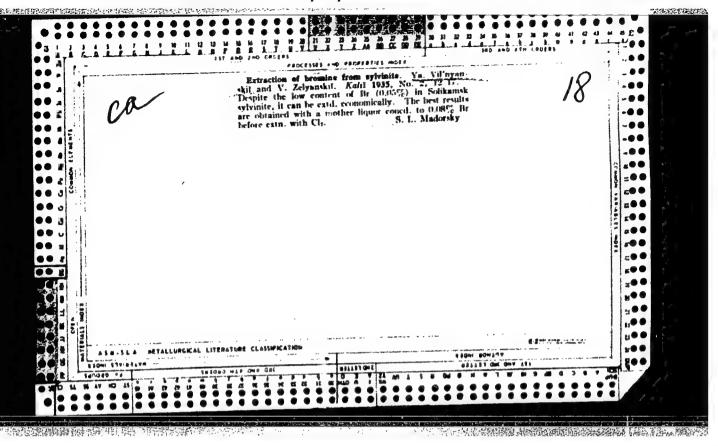


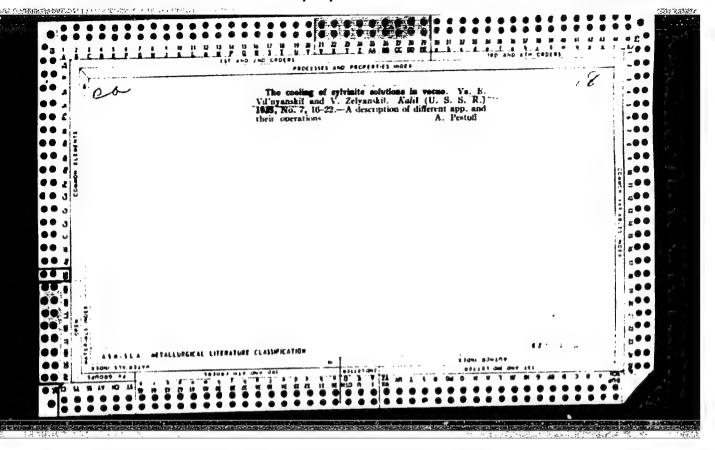






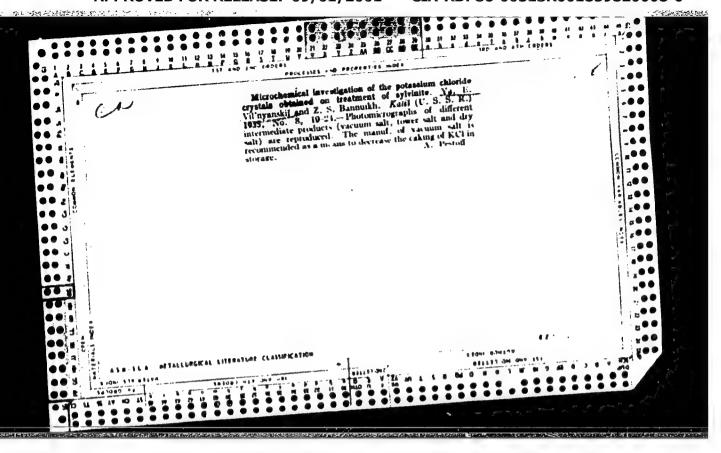


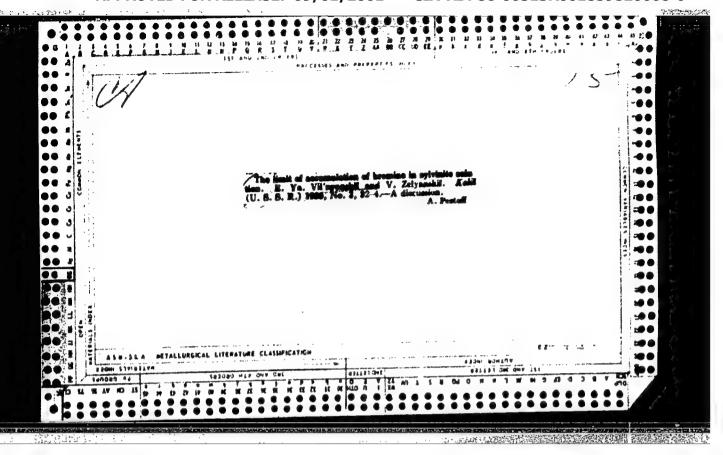


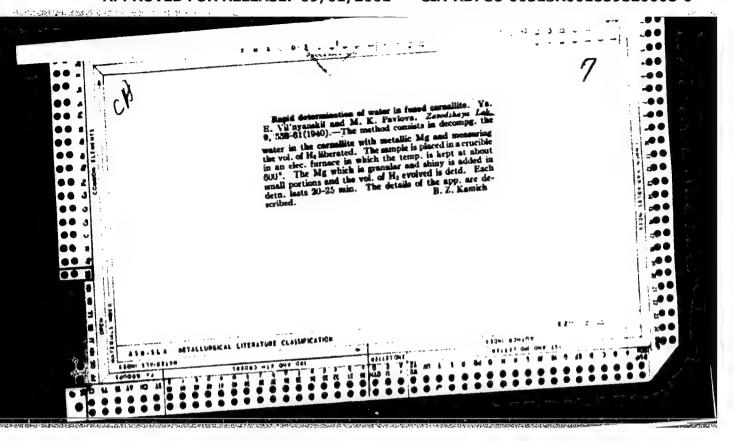


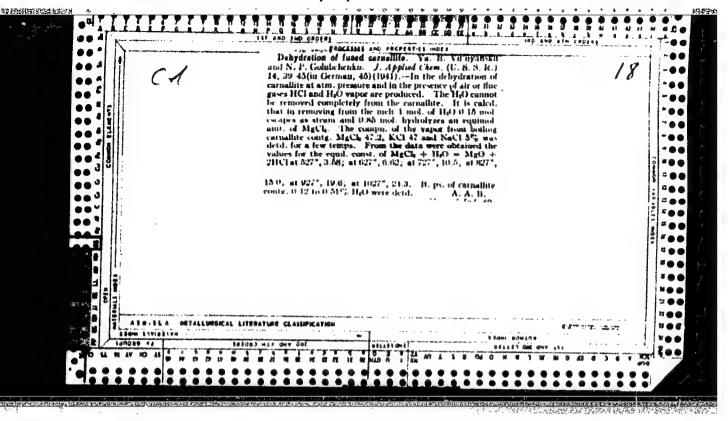
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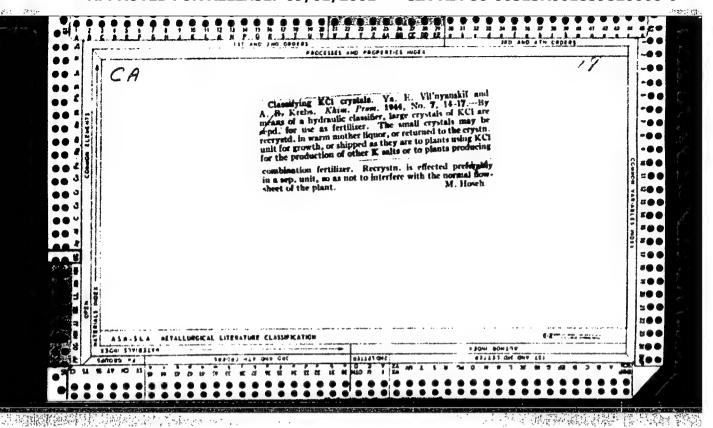
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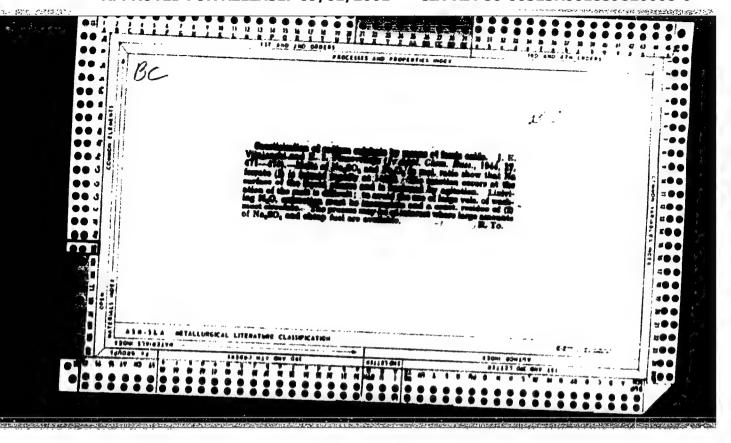


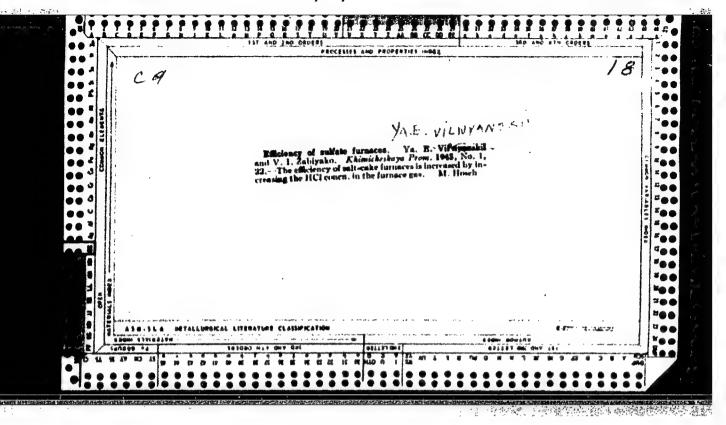


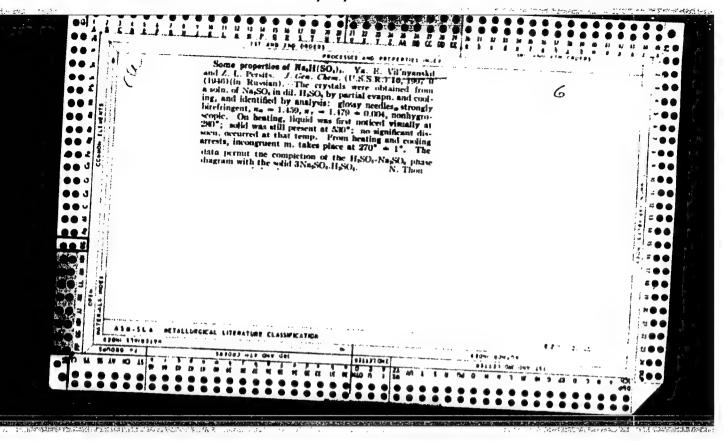


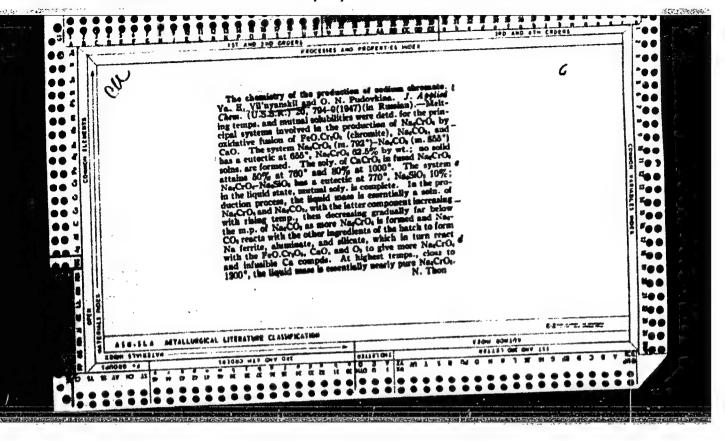


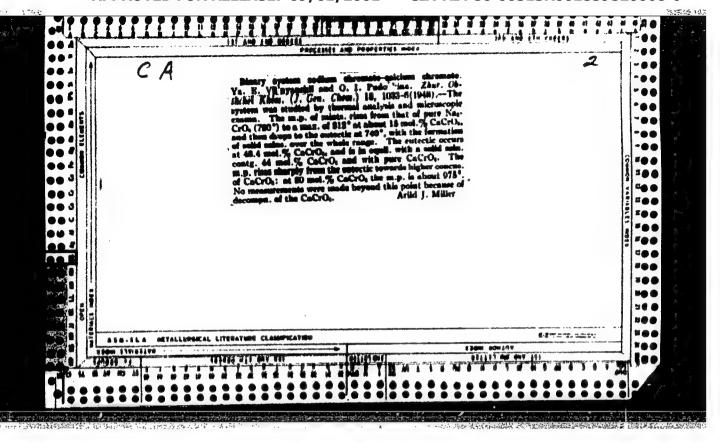


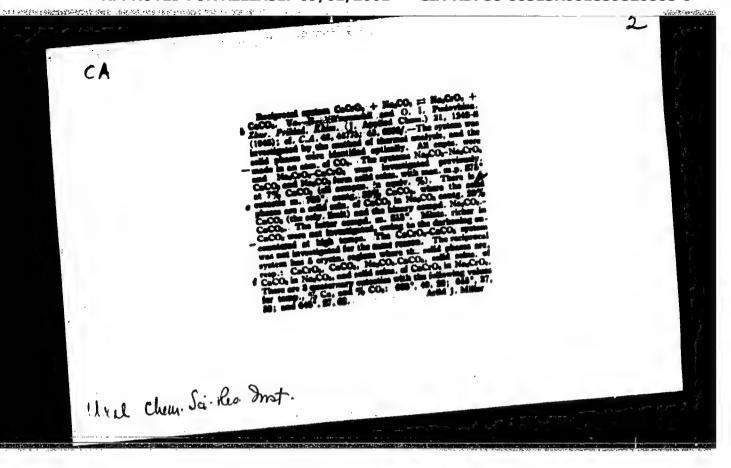










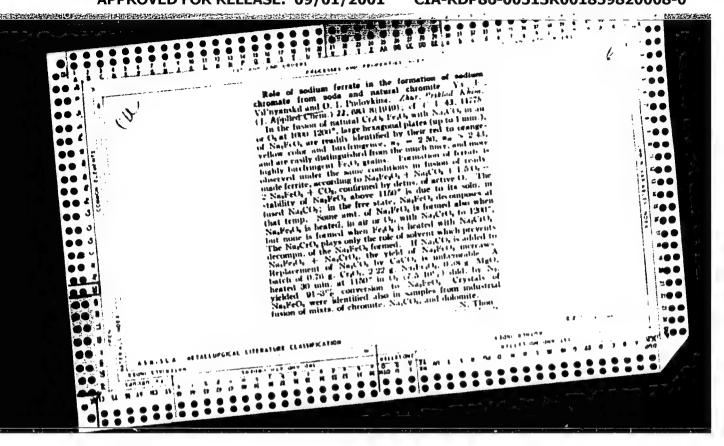


VIL'HYANSKIY, YA. YE.

22955 O roli ferrata natriya v protsesse obrasovaniya khromata natriya is sody 1 estestvennogo khromita. Zhurnal prikl. Khimii, 1949, Mo. 7, C. 683-88. Hibliogr: 9 May.

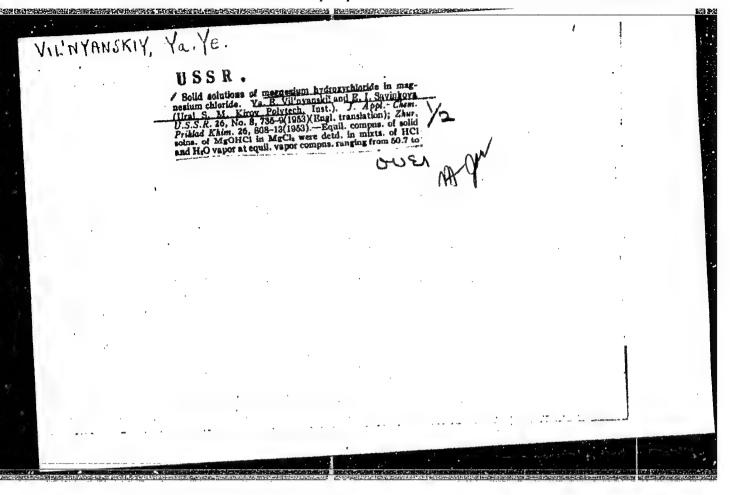
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These results aboved that the computed the solid spin. The sol

Silaravision in to

AID P - 3730

Subject

: USSR/Chemistry

Card 1/1

Pub. 152 - 10/16

Authors

: Vil'nyanskiy, Ya. Ye. and Ye. I. Savinkova

Title

Thermal dissociation of magnesium hydroxychloride

Periodical

Zhur. prikl. khim. 28, 8, 864-871, 1955

Abstract

The mechanism of the reaction was studied by changing one of the three equilibrium factors. When heated in an inert gas mixture, magnesium hydroxychloride decomposes with evolution of HCl and H20-vapor and formation of solid solutions of MgCl(C1,OH). Three tables, 1 diagram, 3 references, all Russian (1935-

1953).

Institution

: Ural Polytechnic Institute im. S. M. Kirov

Submitted

: D 14, 1953

CIA-RDP86-00513R001859820008-0

VILLANA WAR AND THINE

USSR/Inorganic Chemistry - Complex Compounds

C.

: Referat Zhur - Khimiya, No 2, 1957, 4083 Abs Jour

Author

Title

: Bannykh, N.S., Vil'nyanskiy Ya.Ye. : Contribution to the Study of Acid Sulfates of Potassium

Orig Pub

: Zh. obshchey khimii, 1956, 26, No 4, 952-955

Abstract

: $K_3H(SO_{\downarrow_1})_2$ (I) was prepared by cooling an aqueous solution of $K_2SO_{\downarrow_1}$ (II) and $H_2SO_{\downarrow_1}$ (III) from 80^o to

room temperature. In polarized light, the crystals of \underline{I} showed strong double refraction; the refraction coefficients $n_{\rm p}$ and $n_{\rm g}$ are, respectively, 1.474 and 1.525. On heating in the range of 207-213° one modification of I is converted to the other. Melting of I is incongruent; the melting point determined from thermal analysis data if of 268 ± 30. Melting of I takes place according to peritectic reaction type, involving the formation of crystalline II and of a liquid phase which the authors

Card 1/2

- 6 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859820008-0"

USSR/Inorganic Chemistry - Complex Compounds

c.

Abs Jour

: Referat Zhur - Mhimiya, No 2, 1957, 4083

consider to be a saturated solution of II in fused $KHSO_{J_1}$. Beginning with 350° the solution undergoes decomposition with evolution of water vapor. By the method of optical analysis it was ascertained that on cooling of melts containing 67.22% II and 32.78% III, 68.31% II and 31.69% III or 69.09% and 30.91% III, crystals of I separate. From binary mixtures containing 69.85% II and 30.15% III or 71.44% II and 28.56% III, on cooling, II crystallizes out. The authors arrive at the conclusion that compounds X and Y, which have been reported previously (Kendall J., Landon, M.L., J. Amer. Chem. Soc., 1920, 42, 2131), are actually I and II, with a transformation point of I into II at 268°. On the basis of the results obtained, the authors have partially supplemented the solubility diagran of the II-III system.

VIL'HYANSKIY, Ya.Ye.; BAKINA, N.P.

Solubility of water and of magnesium oxide in fused carnallite. Zhur.

prikl. khim. 29 no.4:561-565 Ap '56.

(Garnallite) (Magnesium oxides)

THE TOTAL PROPERTY OF THE PROP

VIL'NYANSKIY, Ya.Ye.; PERSITS, Z.L.

Theory of the sodium silicate method used in the production of

sodium tungstate from calcium tungstate. Zhur. prikl. khim. v. 31 no.5:669-674 My '58. (MIRA 11:6)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova. (Sodium silicates) (Sodium tungstates) (Calcium tungstates)

Savinkova, Ye. I., Vil'nyanskiy, Ya. Ye. SOV/153-2-1-12/25 5(1) AUTHORS: On the Velocity of Dehydrogenation From Melted Chlorination (O skorosti obezvodorozhivaniya TITLE: rasplavlennogo karnallita v protsesse khlorirovaniya) Carnallite During Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 1, pp 59-63 (USSR) PERIODICAL: dehydrogenation. Carnallite is partially hydrolyzed during Accordingly, it retains dissolved OH ions (Ref 1) and suspended particles of magnesium oxide after the melting process. Such ABSTRACT: a melt is sometimes chlorinated before the electrolysis for the purpose of transforming magnesium oxide into magnesium chloride; the simultaneous extraction of hydrogen forms the subject of this article. For laboratory experiments artificial carnallite was employed which had passed through the first stage of dehydrogenation in a rotary furnace. It contained 3.6% MgO and 0.08% H. It was also used for investigating the industrial procedure. Figure 1 shows a series of laboratory experiments concerning the chlorination of melted carnallite by means of a chlorine-air mixture without reducing agent. Table 1 contains the relative velocities of the extraction of hydrogen (as Card 1/3

On the Velocity of Dehydrogenation From Melted Carnallite During Chlorination

507/153-2-1-12/25

mentioned in the title) by various gas mixtures (air, air - chlorine 1:1, chlorine). The results yielded by a works chlorinator are listed in table 2. Figure 2 shows the hydrogen content in various points of the chlorination range as a function of time. On the basis of these results the authors arrived at the following conclusions: (1) In the case of bubbling chlorination the above-mentioned velocity follows approximately the kinetic law of second order reactions. (2) This velocity rises with the concentration of chlorination in the gas mixture and with the increasing content of the reducing substance (carbon) in the suspension. (3) Hydrogen cannot be completely extracted from melted carnallite during the chlorination within finite time since the curve of the hydrogen waste gases follows an asymptotic course. There are 2 figures, 2 tables, and 2 Soviet references.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut; Kafedra tekhnologii neorganicheskikh veshchestv (Ural Polytechnic Institute, Chair of Technology of Inorganic Substances)

Card 2/

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859820008-0

AUTHORS:

Teterevkov, A.I., Vil'nyanskiy, Ya.Ye.

507/80-32-2-38/56

TITLE:

On the Role of Mass Exchange Between Gas and Liquid in the Process of the Chlorination of a Magnesium Oxide Suspension in Molten Chloride (O roli massoobmena mezhdu gazom i zhidkost'-yu vorotsesse khlorirovaniya suspenzii okisi magniya v khloridnom rasplave)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, pp 438-440 (USSR)

ABSTRACT:

Metal chlorides may be produced by the chlorination of the metal oxides. The chlorination of oxides suspended in molten salt in a bubbling plate apparatus is investigated here. Coke was used as a reducer. Chlorination rate increases with the chlorine concentration. The chlorine consumption increases with the lowering of the chlorine concentration in the gaseous phase. The number of plates has a positive influence on the chlorination rate. There is a two-sided mass-exchange: the absorption of chlorine and the desorption of carbon oxides. The increase of the gas speed increases the rate of chlorination.

0-1-19

There are 2 tables, 2 graphs, and 3 references, 2 of which are Soviet, and 1 English.

Ural Pointeck Inst. im S. M. Kirov